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STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DE HIGHWAYS SYAMB N.C. 12" THRU 72" PIPE EXTRA DEPTH OVER 12' TO 25' CONCRETE MEDIAN DROP INLET TYPE 'A' ENGLISH DETAIL DRAWING FOR CONSTRU U-U PERMISSIBLE ECTION OPENING IN WALL TROUGH SECTION SEE DETAIL OF / SUPPORT NOTCH STD. 840.17 SHE PART ENGLISH DETAIL DRAWING FOR SHEET 2 OF 2 840D17 CONCRETE MEDIAN DROP INLET TYPE 'A'

840D17

SECTION

12" THRU 72" PIPE EXTRA DEPTH OVER 12' TO 25' CONCRETE MEDIAN DROP INLET TYPE 'A' ENGLISH DETAIL DRAWING FOR

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION SYAWBYS SYAWBYS BYAWBYS .D.N.C.

DET

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR CONCRETE MEDIAN DROP INLET TYPE 'A' EXTRA DEPTH OVER 12' TO 25'

15"

MEDIAN GRADE

12" THRU 72" PIPE

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

EXTRA DEPTH OVER 12' TO 25' 12" THRU 72" PIPE

CONTRACT STANDARDS AND DEVELOPMENT UNIT Office 919-707-6950 FAX 919-250-4119

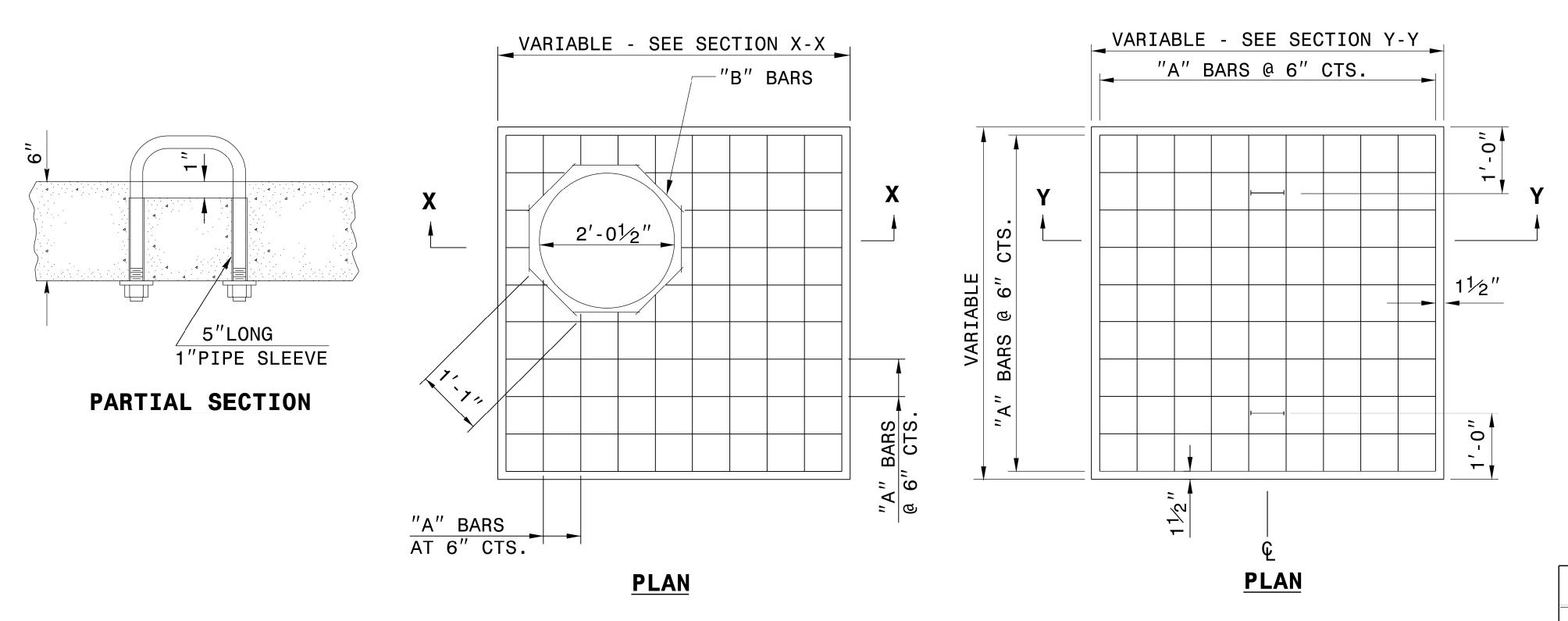
SEE PLATE FOR TITLE

ORIGINAL BY: 2002 STD.840.1 DATE:

MODIFIED BY: K.A. KEMPF DATE: 07-06-09

CHECKED BY: DATE:

FILE SPEC.: /stand/840d17 Extra Depth 2GI.dgn



MANHOLE COVER & FRAME

SEE STD. NO. 840.54

GENERAL NOTES:

CONSTRUCT IN ACCORDANCE WITH SECTION 859 OF THE STANDARD SPECIFICATIONS.

THE DIMENSIONS FOR THE EXISTING BOXES ARE APPROXIMATE AND MAY VARY SLIGHTLY.

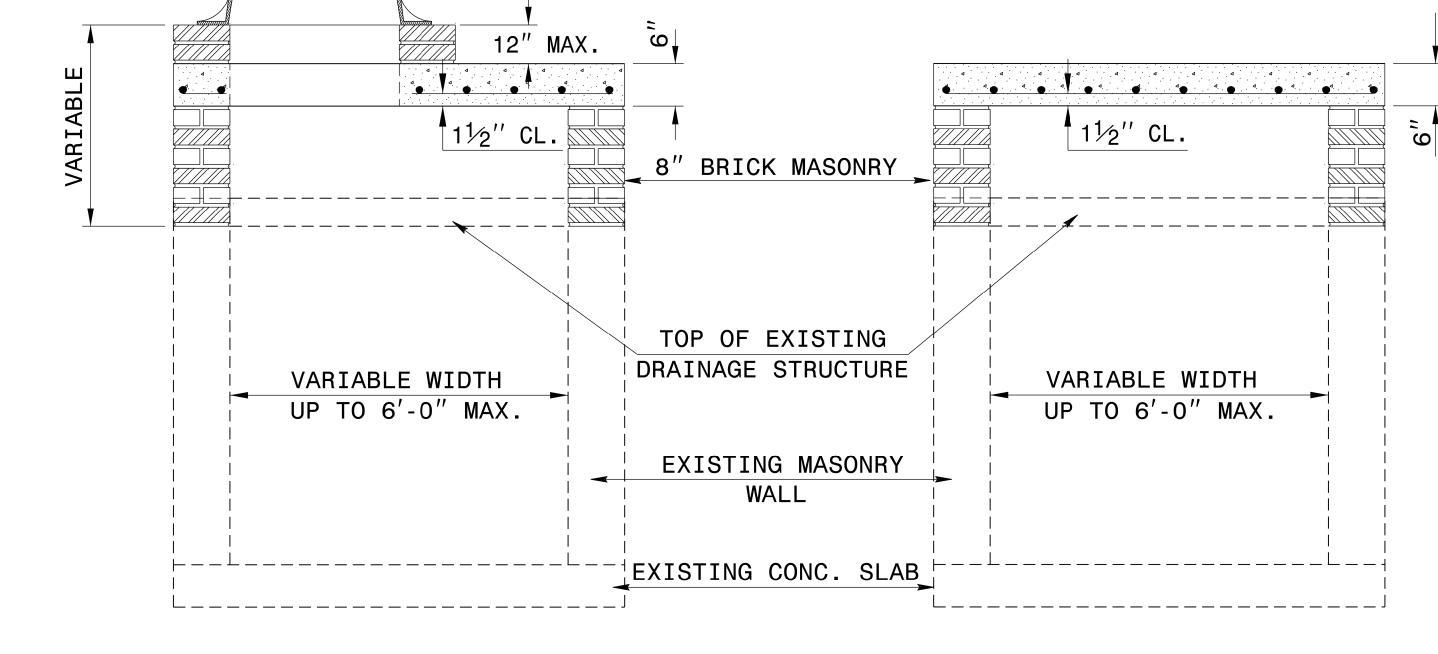
DETAIL INTENDED FOR NON-TRAFFIC BEARING DRAINAGE STRUCTURES.

BILL OF MATERIALS					
	RE	INFORCING	STEEL		
CODE	SIZE	QTY.	LENGTH	REINF. STEEL LBS.	
Α	#4	20	4'-6"	60.12	
В	#4	8	1'-1"	5.79	
TOTAL 65.91 *					
MASONRY CU YDS					
TOP	TOP SLAB CONCRETE CLASS "B" .4326 *				

BRICK MASONRY PER FT HT (MIN)

★ NOTE:

QUANTITIES BASED ON 3'-6" X 3'-6" DRAINAGE STRUCTURE. ADJUST QUANTITIES FOR LARGER STRUCTURES AND MANHOLE CONSTRUCTION.



DETAIL OF HANDLE

2-HEX NUTS

-3⁄4" RAD.

2-3"x1/4" TH

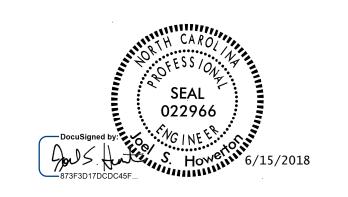
ROUNDED OR

SQUARE CUT

WASHERS

SECTION X-X

SECTION Y-Y



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

.4111

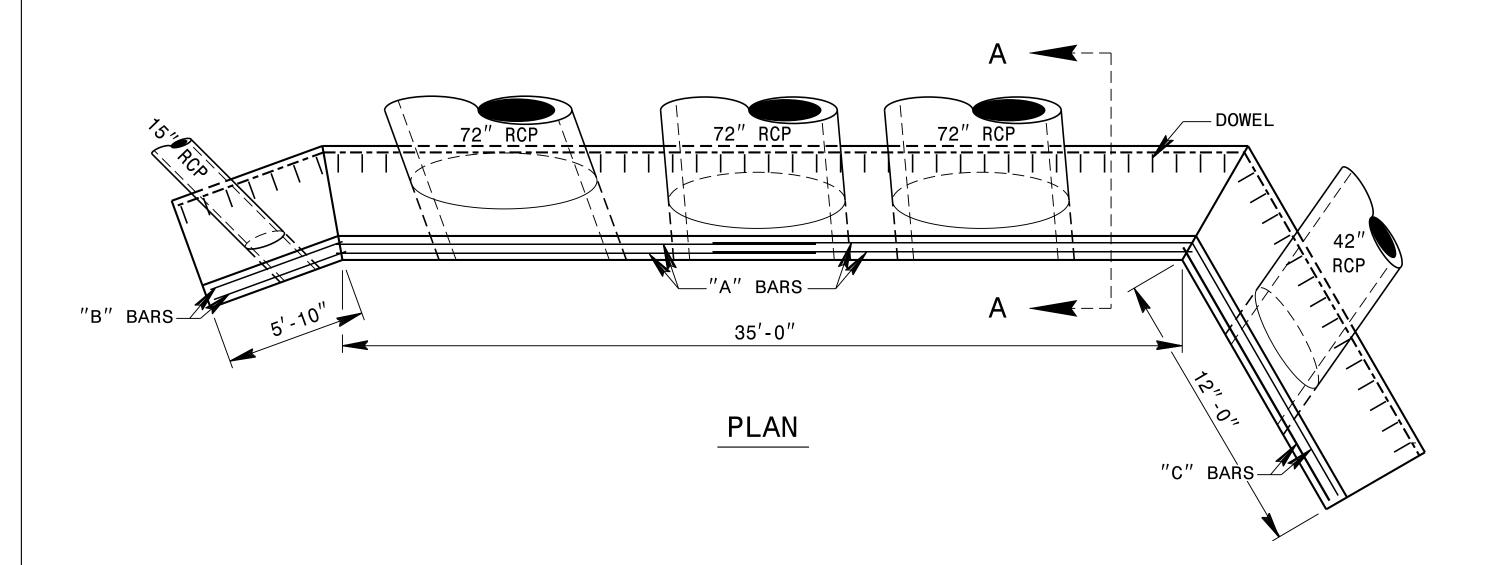
CONTRACT STANDARDS AND DEVELOPMENT UNIT Office 919-707-6950 FAX 919-250-4119

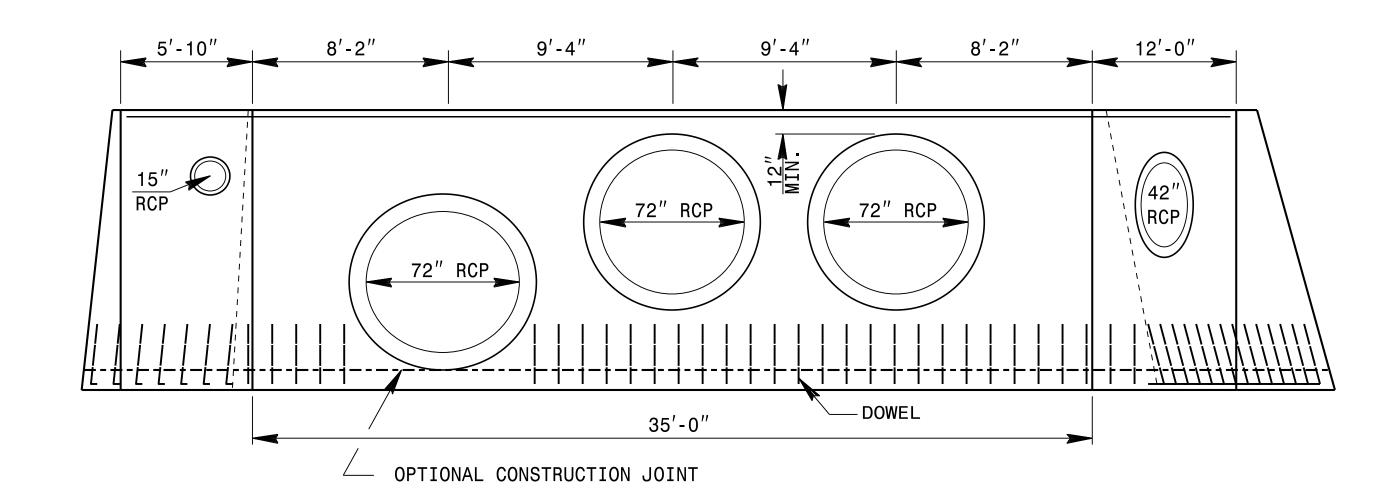
DETAIL TO CONVERT EXISTING
DI, CB, OTCB or GI
TO JUNCTION BOX
(MANHOLE OPTIONAL)

ORIGINAL BY:	T.S.S.	DATE:	NOV.1997
MODIFIED BY:	T.S.S.	DATE:	FEB.2000
CHECKED BY:		DATE:	
FILE SPEC.: d	s174:/usr/deta	ails/stand/b	oxtojbe.dgn

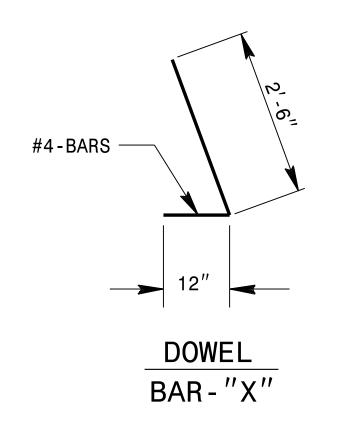
;&\$\$\$\$\$YS|IME\$\$\$\$\$;&\$\$\$\$\$\$\$\$\$\$\$\$\$DGN\$\$\$\$\$\$\$\$\$\$;&\$\$USERNAME\$\$\$\$ 10"

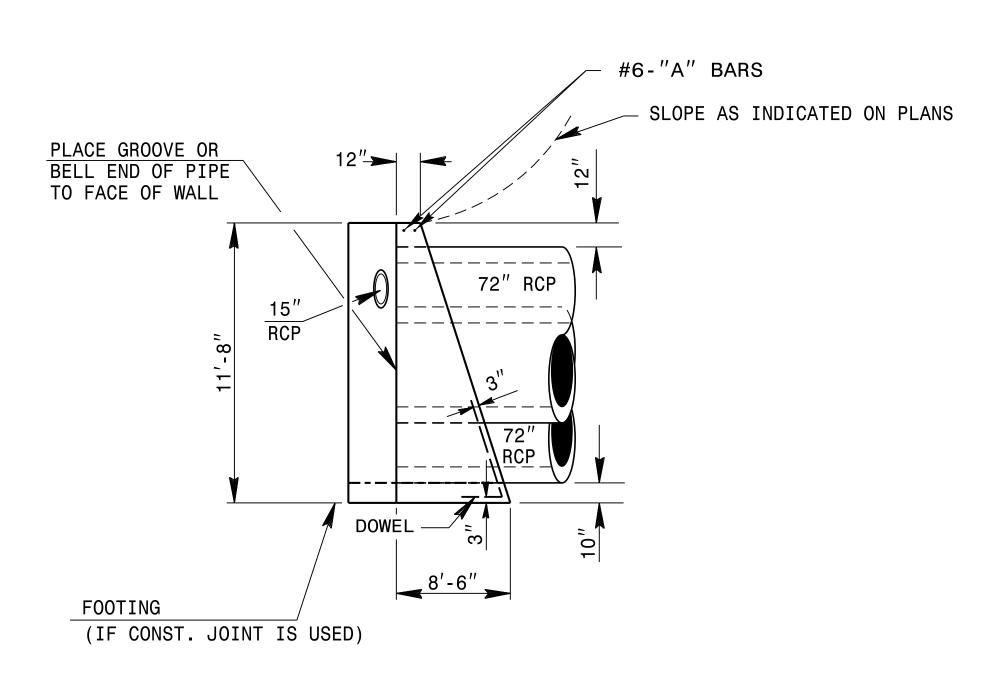
* NOT TO SCALE





ELEVATION





'A' SECTION

GENERAL NOTES:

-CHAMFER ALL CORNERS 1".

-USE FORMS TO CONSTRUCT THE BOTTOM SLAB.

-WHEN THE CONTRACTOR ELECTS TO USE A CONSTRUCTION JOINT AT THE BOTTOM OF THE PIPE, PLACE BAR 'X' DOWELS IN THE BASE AS SHOWN ON PLANS. SPACING OF BARS IS TO BE APPROXIMATELY 12" CENTERS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

-WHEN THE CONTRACTOR ELECTS TO USE A CONSTRUCTION JOINT AT THE BOTTOM OF THE PIPE AND POUR THE BASE SEPARATELY THE POUR SHALL BE LEFT ROUGH.

-REINFORCING STEEL TO BE CUT, BENT OR RELOCATED AS DIRECTED BY THE ENGINEER.

-FINAL LOCATION OF PIPES TO BE DETERMINED BY THE ENGINEER.

-SEE SPECIAL DETAIL FOR FENCE INSTALLATION IF REQUIRED BY THE ENGINEER.

-USE CLASS "B" CONCRETE.

BI	LL	OF	MATER	RIALS
BAR	QTY	SIZE	LENGTH	WEIGHT
Α	4	#6	20"-0"	120
В	2	#6	5'-10"	18
С	2	#6	12'-2"	37
X	51	#4	3'-6"	119
TOTAL REINF. STEEL (lbs.)				294
TOTAL CONC. CU. YDS.			116.4	
PIPE	DEDUC	ΓIONS (CU. YDS.	15.6



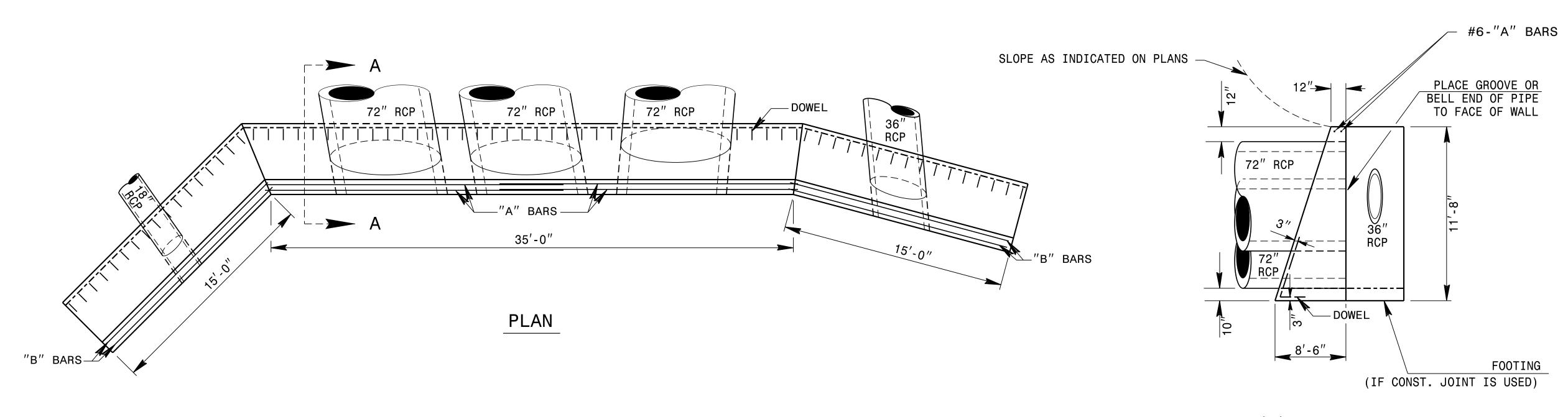
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CONTRACTS STANDARDS AND DEVELOPMENT UNIT Office 919-707-6950 FAX 919-250-4119

CONCRETE ENDWALL FOR 3 - 72"RCP, W/ PIPES IN WINGWALLS

ORIGINAL BY:_	K KEMPF DATE: 04-25-18
MODIFIED BY:_	DATE :
CHECKED BY:	DATE:
FILE SPEC.:	kkempf\english\U4405 endwalls.dgn

* NOT TO SCALE



'A' SECTION

GENERAL NOTES:

-CHAMFER ALL CORNERS 1".

-USE FORMS TO CONSTRUCT THE BOTTOM SLAB.

-WHEN THE CONTRACTOR ELECTS TO USE A CONSTRUCTION JOINT AT THE BOTTOM OF THE PIPE, PLACE BAR 'X' DOWELS IN THE BASE AS SHOWN ON PLANS. SPACING OF BARS IS TO BE APPROXIMATELY 12" CENTERS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

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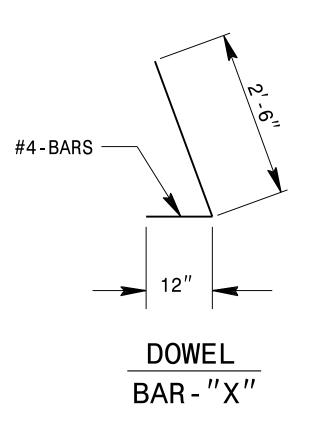
-REINFORCING STEEL TO BE CUT, BENT OR RELOCATED AS DIRECTED BY THE ENGINEER.

-FINAL LOCATION OF PIPES TO BE DETERMINED BY THE ENGINEER.

-SEE SPECIAL DETAIL FOR FENCE INSTALLATION IF REQUIRED BY THE ENGINEER.

-USE CLASS "B" CONCRETE.

ELEVATION



BI	LL	0F	MATER	RIALS
BAR	QTY	SIZE	LENGTH	WEIGHT
Α	4	#6	20"-0"	120
В	4	#6	15'-0"	90
X	63	#4	3'-6"	147
TOTAL	357			
TOTAL CONC. CU. YDS. 142.8				
PIPE DEDUCTIONS CU. YDS. 15.7				



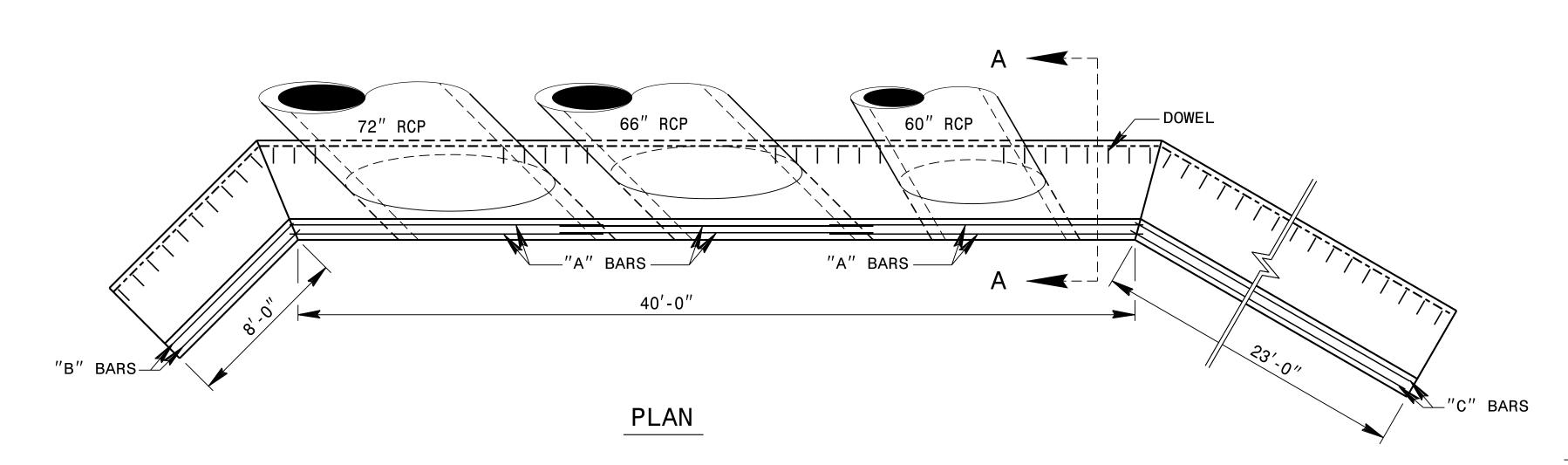
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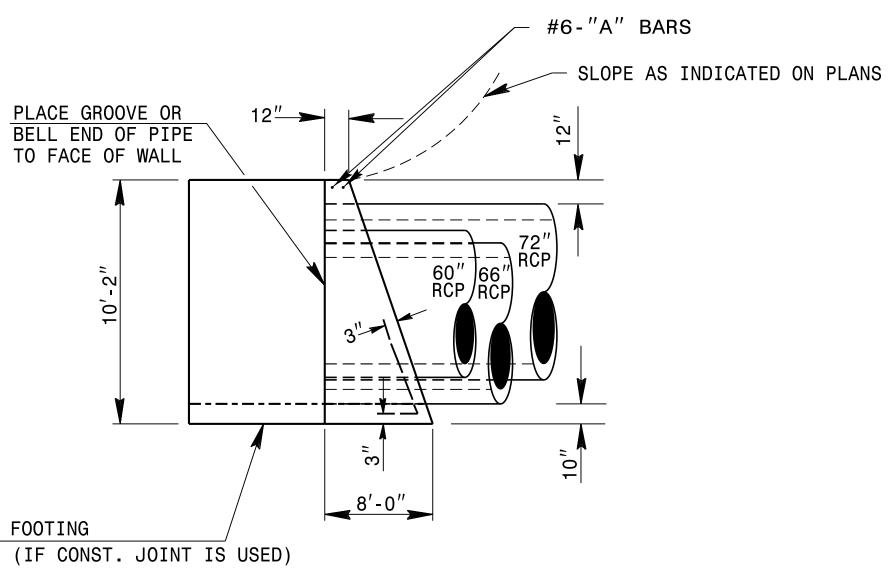
CONTRACTS STANDARDS AND DEVELOPMENT UNIT Office 919-707-6950 FAX 919-250-4119

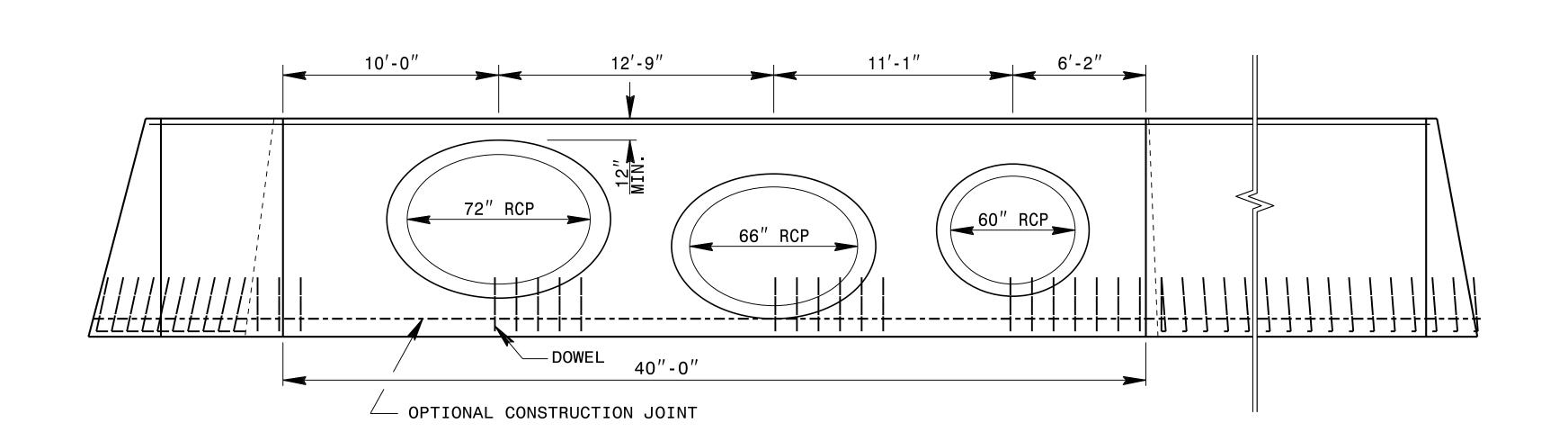
CONCRETE ENDWALL FOR 3 - 72"RCP, W/ PIPES IN WINGWALLS

MODIFIED BY: DATE: DATE: DATE: FILE SPEC.: kkempf\english\U4405 endwalls.dgn	ORIGINAL BY:_	<u> K KEMPF </u>
CHECKED BY:DATE:	MODIFIED BY:_	DATE :
FILE SPEC kkempf\english\U4405 endwalls.dgn	CHECKED BY:	DATE:
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* NOT TO SCALE







'A' SECTION

GENERAL NOTES:

-CHAMFER ALL CORNERS 1".

-USE FORMS TO CONSTRUCT THE BOTTOM SLAB.

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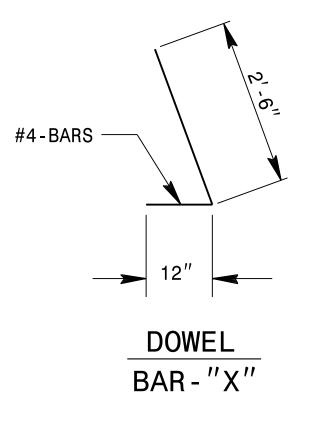
-REINFORCING STEEL TO BE CUT, BENT OR RELOCATED AS DIRECTED BY THE ENGINEER.

-FINAL LOCATION OF PIPES TO BE DETERMINED BY THE ENGINEER.

-SEE SPECIAL DETAIL FOR FENCE INSTALLATION IF REQUIRED BY THE ENGINEER.

-USE CLASS "B" CONCRETE.

ELEVATION



BILL OF MATERIALS				
BAR	QTY	SIZE	LENGTH	WEIGHT
Α	6	#6	15"-0"	120
В	2	#6	8'-0"	90
С	2	#6	23'-0"	90
X	63	#4	3'-6"	147
				447
1017(2 1(21(1 0 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			120.3	
TOTAL GOILO: TEGIO				
PIPE DEDUCTIONS CU. YDS. 23.0				



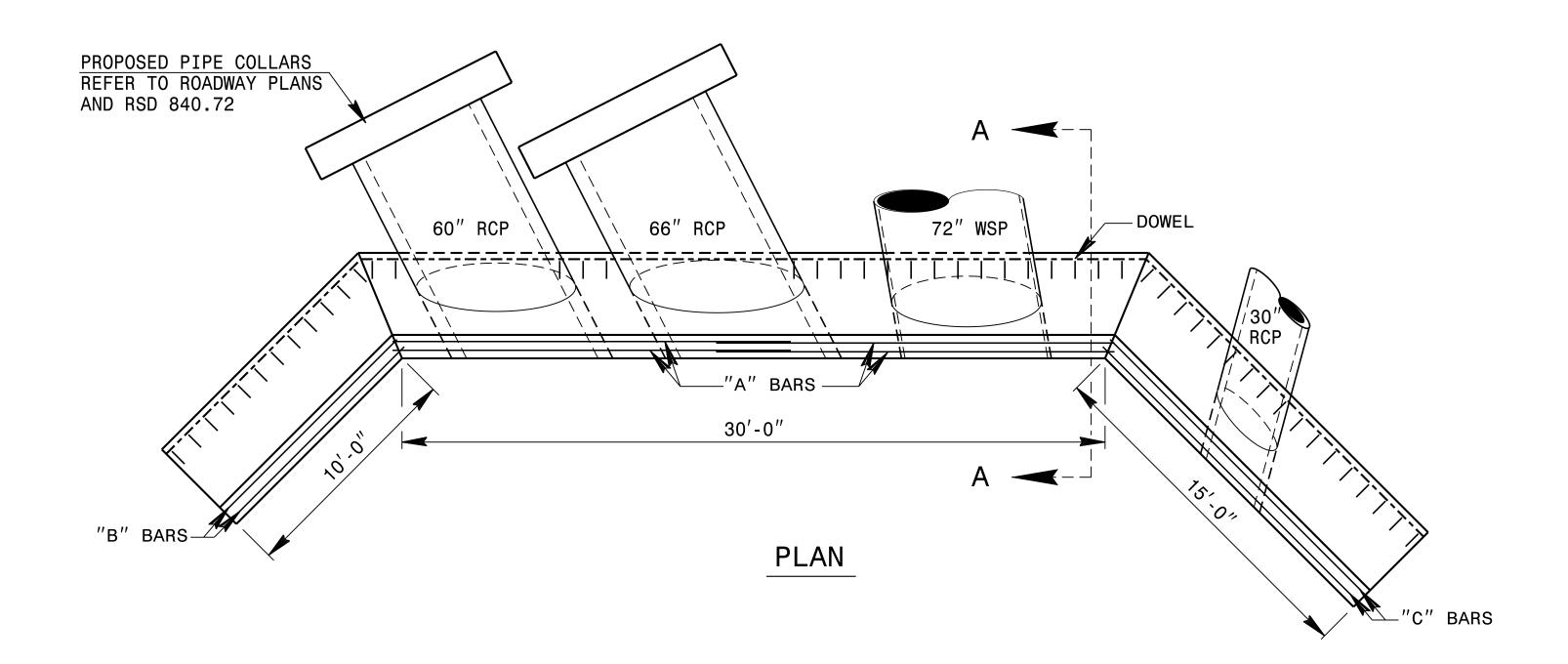
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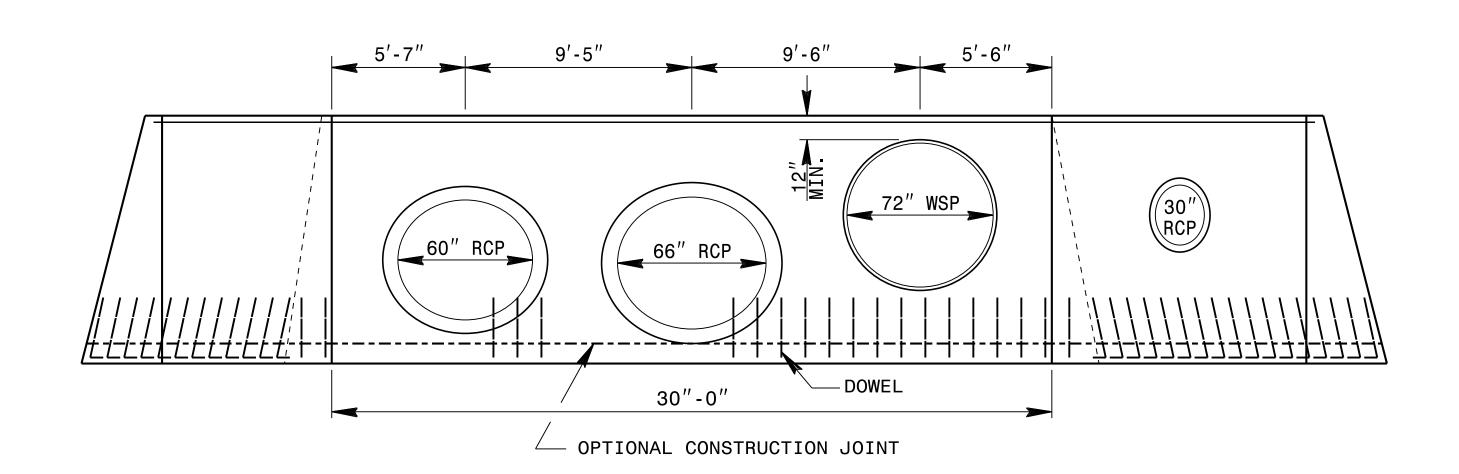
CONTRACTS STANDARDS AND DEVELOPMENT UNIT Office 919-707-6950 FAX 919-250-4119

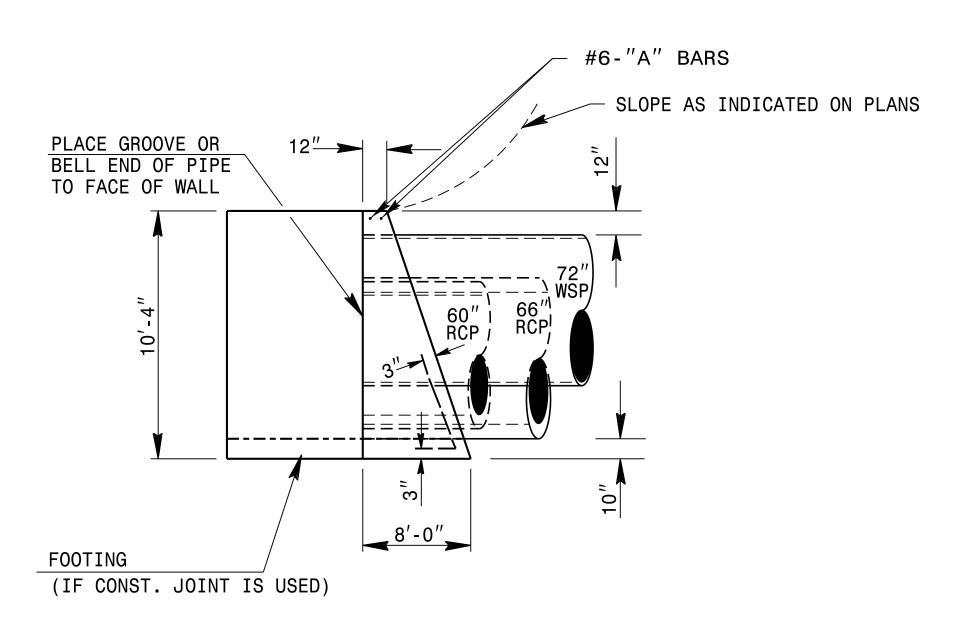
CONCRETE ENDWALL FOR 60"RCP, 66"RCP, 72"WSP, W/ WINGWALL

ORIGINAL BY:_	K KEMPF DATE: 05-07-18
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC.:	kkempf\english\U4405 endwalls.dgn

* NOT TO SCALE







'A' SECTION

GENERAL NOTES:

-CHAMFER ALL CORNERS 1".

-USE FORMS TO CONSTRUCT THE BOTTOM SLAB.

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-WHEN THE CONTRACTOR ELECTS TO USE A CONSTRUCTION JOINT AT THE BOTTOM OF THE PIPE AND POUR THE BASE SEPARATELY THE POUR SHALL BE LEFT ROUGH.

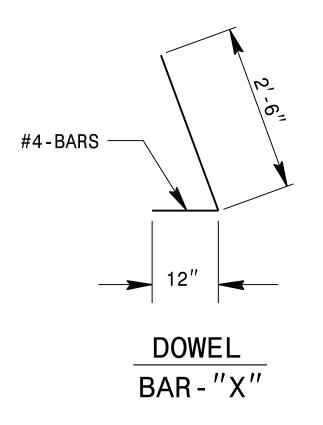
-REINFORCING STEEL TO BE CUT, BENT OR RELOCATED AS DIRECTED BY THE ENGINEER.

-FINAL LOCATION OF PIPES TO BE DETERMINED BY THE ENGINEER.

-SEE SPECIAL DETAIL FOR FENCE INSTALLATION IF REQUIRED BY THE ENGINEER.

-USE CLASS "B" CONCRETE.

ELEVATION



BI	LL	0F	MATER	RIALS
BAR	QTY	SIZE	LENGTH	WEIGHT
Α	4	#6	17"-0"	102
В	2	#6	10'-2"	31
С	2	#6	15'-2"	46
X	49	#4	3'-6"	115
TOTAL	REINF	STE	EL (lbs.)	294
` '				94.7
PIPE	DEDUC	ΓIONS	CU. YDS.	13.4

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

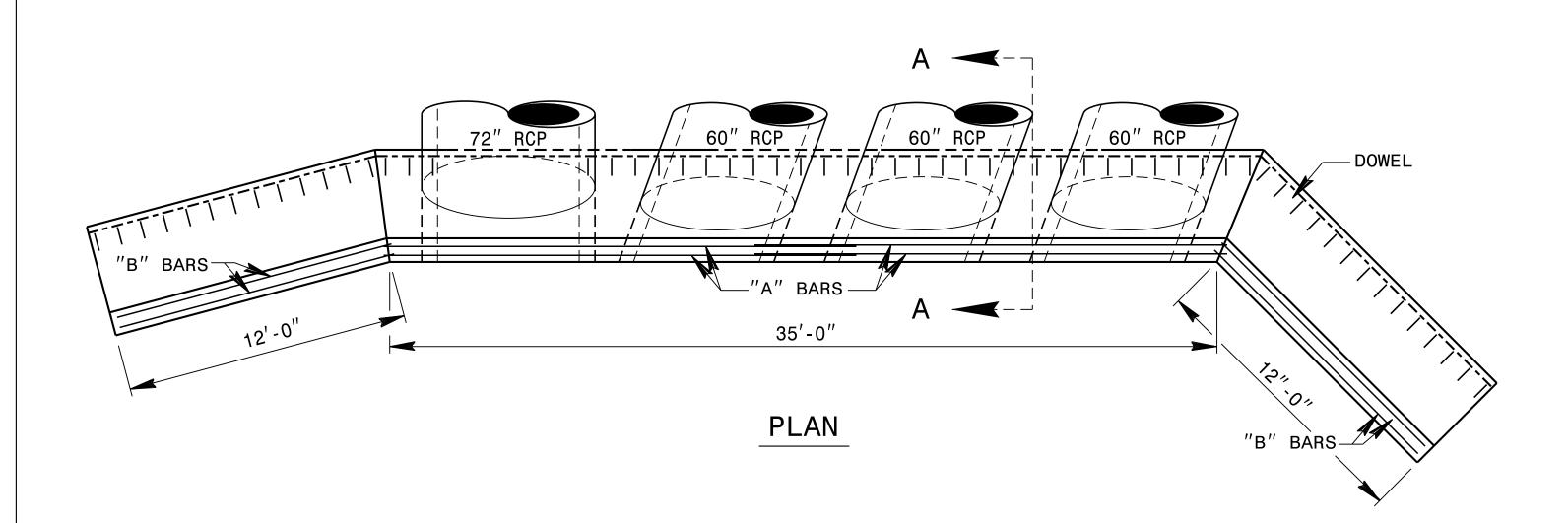
CONTRACTS STANDARDS

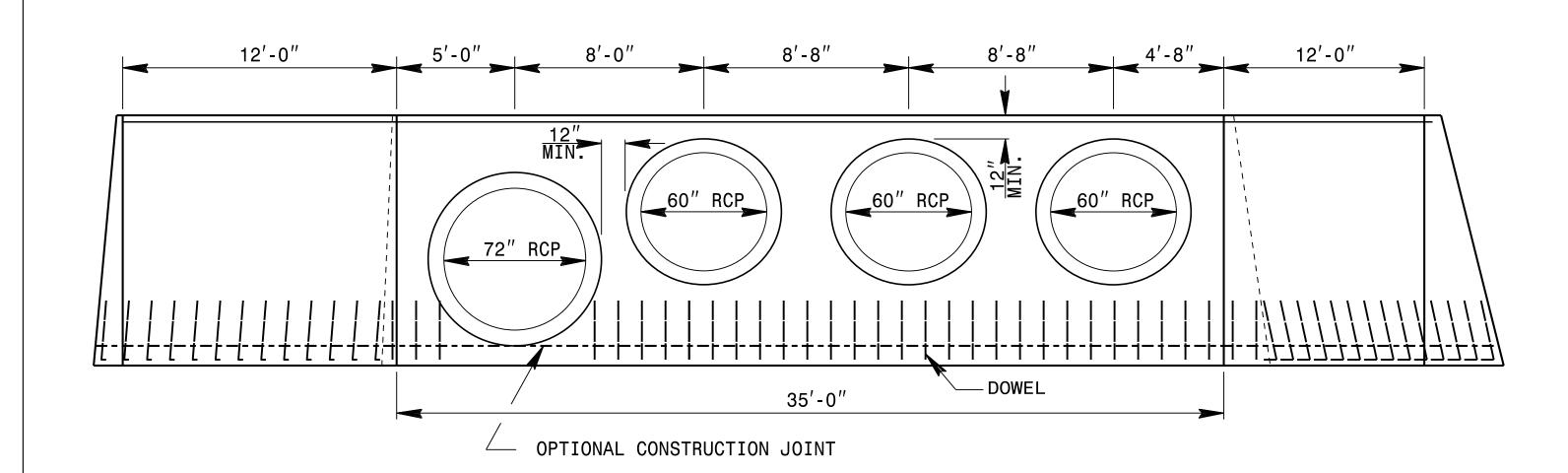
CONTRACTS STANDARDS AND DEVELOPMENT UNIT Office 919-707-6950 FAX 919-250-4119

CONCRETE ENDWALL FOR 60"RCP, 66"RCP, 72"WSP, W/ PIPE IN WINGWALL

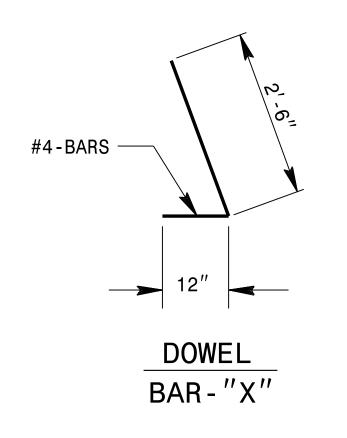
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MODIFIED BY:	DATE:	
CHECKED BY:	DATE:	
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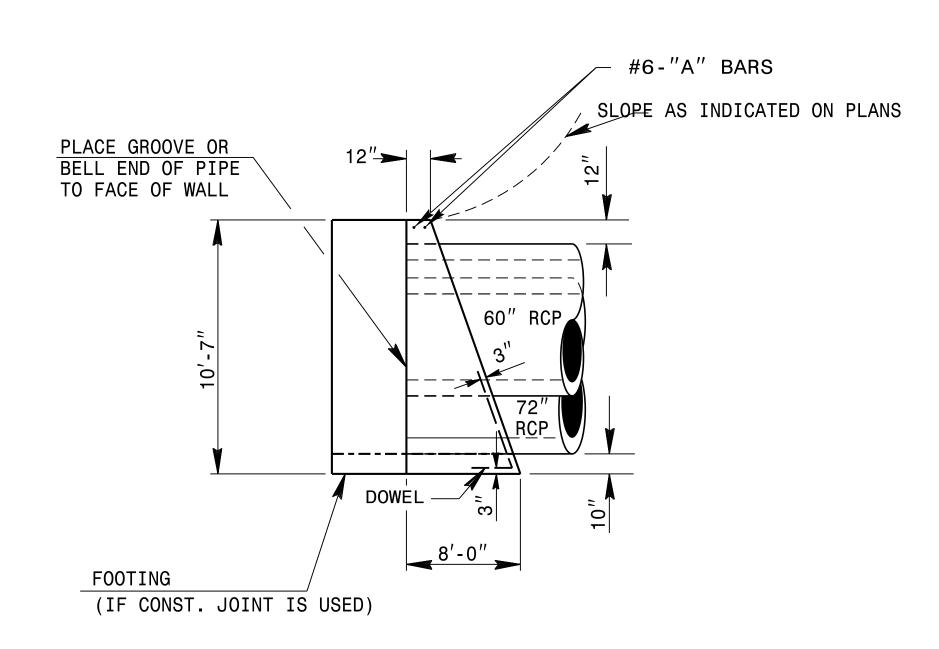
* NOT TO SCALE





ELEVATION





'A' SECTION

GENERAL NOTES:

-CHAMFER ALL CORNERS 1".

-USE FORMS TO CONSTRUCT THE BOTTOM SLAB.

-WHEN THE CONTRACTOR ELECTS TO USE A CONSTRUCTION JOINT AT THE BOTTOM OF THE PIPE, PLACE BAR 'X' DOWELS IN THE BASE AS SHOWN ON PLANS. SPACING OF BARS IS TO BE APPROXIMATELY 12" CENTERS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

-WHEN THE CONTRACTOR ELECTS TO USE A CONSTRUCTION JOINT AT THE BOTTOM OF THE PIPE AND POUR THE BASE SEPARATELY THE POUR SHALL BE LEFT ROUGH.

-REINFORCING STEEL TO BE CUT, BENT OR RELOCATED AS DIRECTED BY THE ENGINEER.

-FINAL LOCATION OF PIPES TO BE DETERMINED BY THE ENGINEER.

-SEE SPECIAL DETAIL FOR FENCE INSTALLATION IF REQUIRED BY THE ENGINEER.

-USE CLASS "B" CONCRETE.

BI	LL	OF	MATER	RIALS
BAR	QTY	SIZE	LENGTH	WEIGHT
Α	4	#6	20"-0"	120
В	4	#6	12'-2"	73
X	59	#4	3'-6"	138
TOTAL REINF. STEEL (lbs.) 331 TOTAL CONC. CU. YDS. 103.3				
PIPE	DEDUC	TIONS (CU. YDS.	14.7

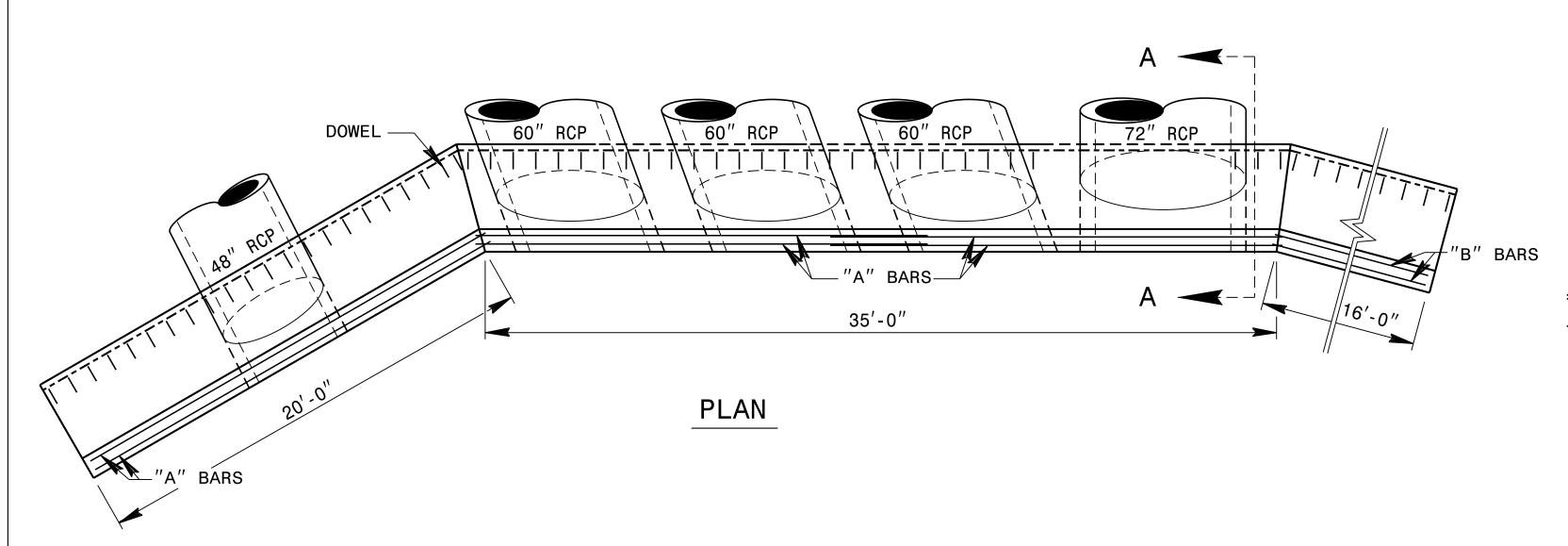
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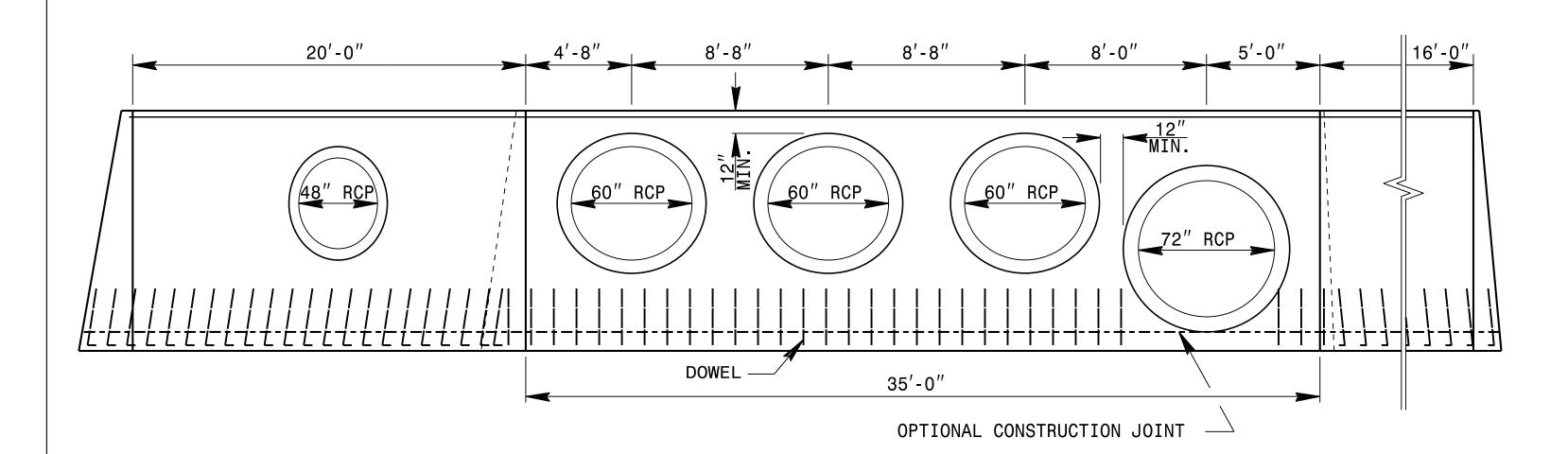
CONTRACTS STANDARDS AND DEVELOPMENT UNIT Office 919-707-6950 FAX 919-250-4119

CONCRETE ENDWALL FOR 3 - 60"RCP, 72" RCP W/ WINGWALLS

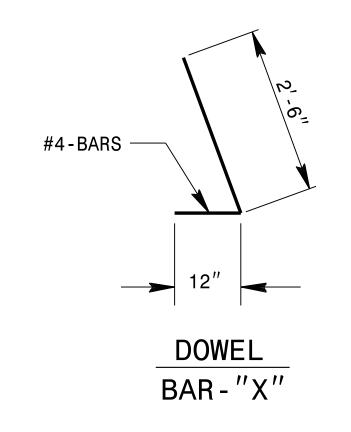
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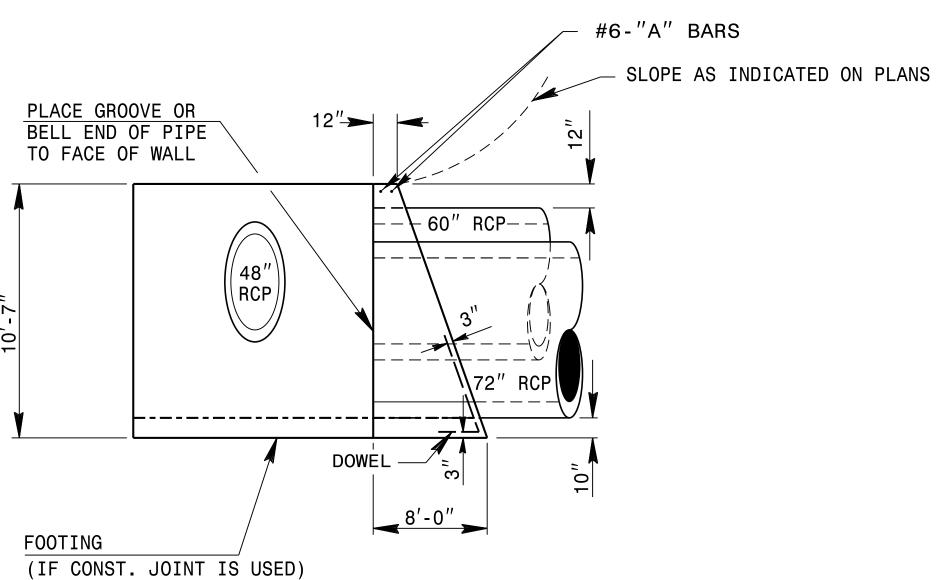
* NOT TO SCALE





ELEVATION





'A' SECTION

GENERAL NOTES:

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-USE CLASS "B" CONCRETE.

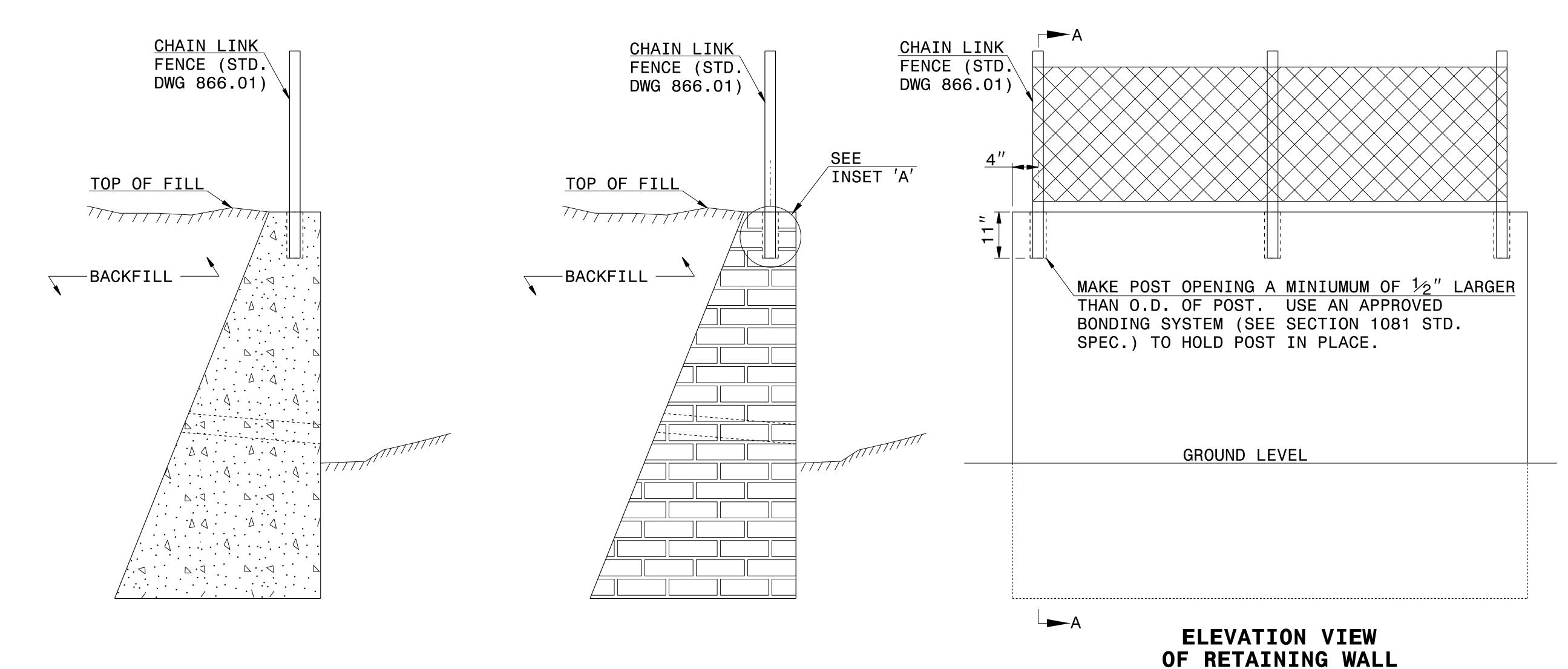
BI	LL	OF	MATEF	RIALS
BAR	QTY	SIZE	LENGTH	WEIGHT
Α	6	#6	20"-0"	180
В	2	#6	16'-2"	49
X	69	#4	3'-6"	161
TOTAL TOTAL	390 124.3			
PIPE	16.3			

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CONTRACTS STANDARDS AND DEVELOPMENT UNIT Office 919-707-6950 FAX 919-250-4119

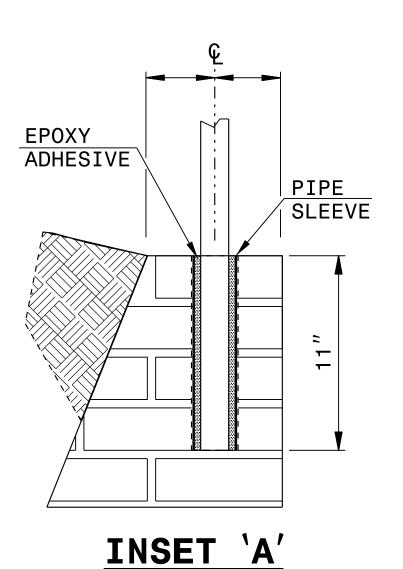
CONCRETE ENDWALL FOR 3 - 60"RCP, 72" RCP W/ 48" RCP IN WINGWALL

ORIGINAL BY:	K KEMPF	DATE: 05-11-18
MODIFIED BY:_		DATE:
CHECKED BY:		DATE:
FILE SPEC.:	kkempf\english\U44	405 endwalls.dgn



SECTION A-A
CONCRETE RETAINING WALL

SECTION A-A BRICK MASONRY RETAINING WALL



SEAL 022966

Docusigned by: S. Hower, 6/15/2018

873F3D17DCDC45F...

GENERAL NOTES:

EMBED CHAIN LINK FENCE 11" INTO PROPOSED WALL IN A SLEEVE OR BLOCKOUT WITH EPOXY OR CONCRETE GROUT ANCHORING SYSTEM. PRE-MEASURE AND CENTER THE PROPOSED FENCE ON TOP OF WALL FOR POST SPACINGS. IF DRILLING THE HOLES FOR POSTS, USE A ROTARY DRILL TO DRILL HOLES IN THE CONCRETE. NO IMPACT DRILLS WILL BE ALLOWED, TO ELIMINATE ANY POSSIBILITY OF STRUCTURAL DAMAGES TO THE PROPOSED WALL.

INSTALL PIPE SLEEVES IN THE BRICK RETAINING WALL (SEE INSET 'A') AND REFER TO STD. SPECIFICATION 1081 FOR PROPER ANCHOR SYSTEM.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETE

CONTRACT STANDARDS AND DEVELOPMENT UNIT Office 919-707-6950 FAX 919-250-4119

CHAIN LINK FENCE
ON RETAINING WALL

ORIGINAL BY: L. Robinson

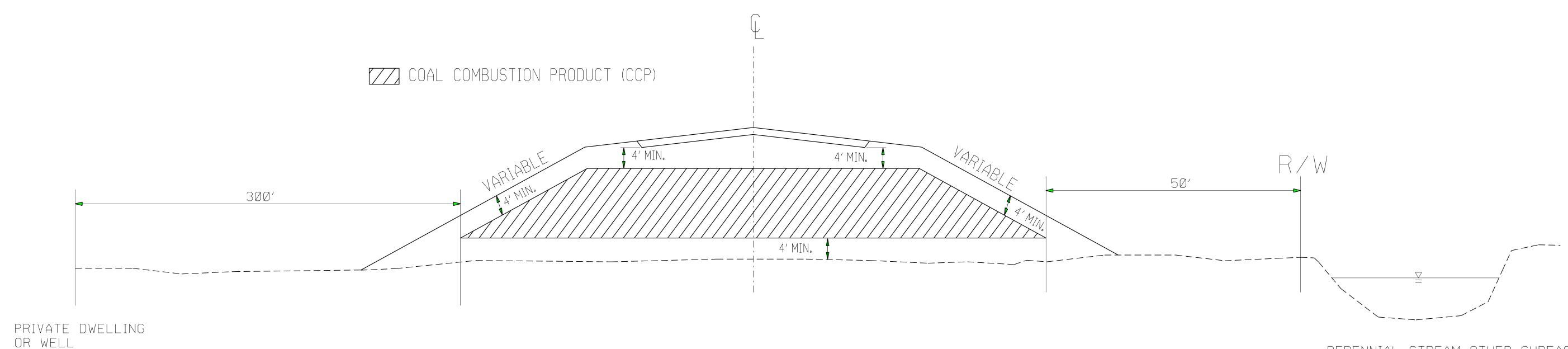
MODIFIED BY: K.Kempf

CHECKED BY: DATE: May. 2018

CHECKED BY: DATE: DATE:

FILE SPEC.: details/jhowerton\chain link on retaining wall.dgn

COAL COMBUSTION PRODUCT PLACEMENT



PERENNIAL STREAM, OTHER SURFACE WATER BODY OR *WETLAND

*(OBTAIN PERMISSION FROM ARMY CORPS OF ENGINEERS)

PLACE CCP IN HATCHED AREA IN ACCORDANCE WITH THE PROJECT SPECIAL PROVISIONS

PLACE CCP A MINIMUM OF 5'ABOVE SEASONAL HIGH GROUND WATER

PLACE AT LOCATIONS AS APPROVED BY THE ENGINEER

PLACE SOIL BORROW MATERIAL ON THE OUTSIDE OF CCP AS EACH LIFT OF CCP IS PLACED



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

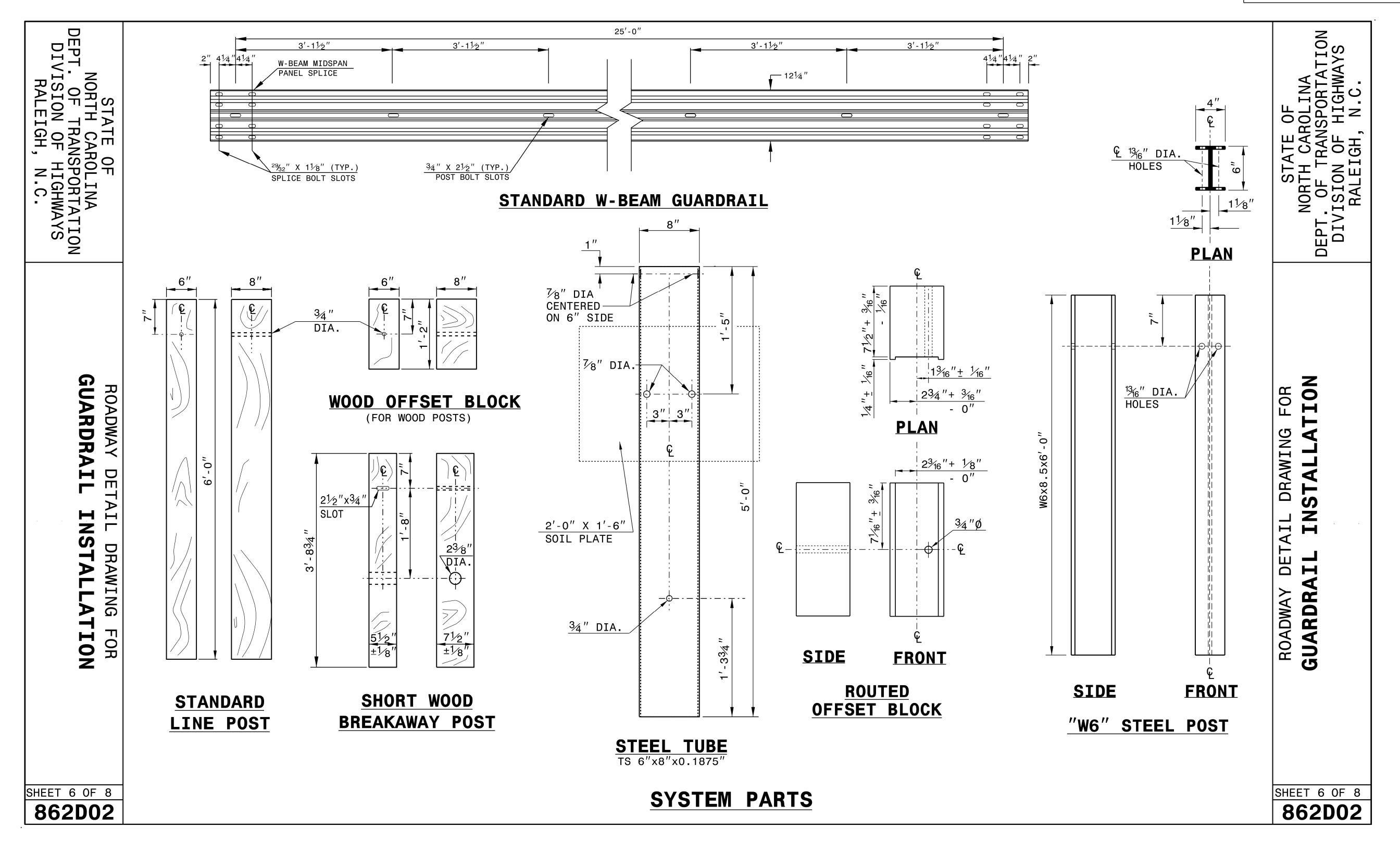
CONTRACT STANDARDS AND DEVELOPMENT UNIT Office 919-707-6950 FAX 919-250-4119

COAL COMBUSTION PRODUCT PLACEMENT DETAIL

ORIGINAL BY: J.S.H. DATE: 3/16/15

MODIFIED BY: DATE: CHECKED BY: DATE: FILE SPEC.:joel/coal combustion material detail.dgn

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

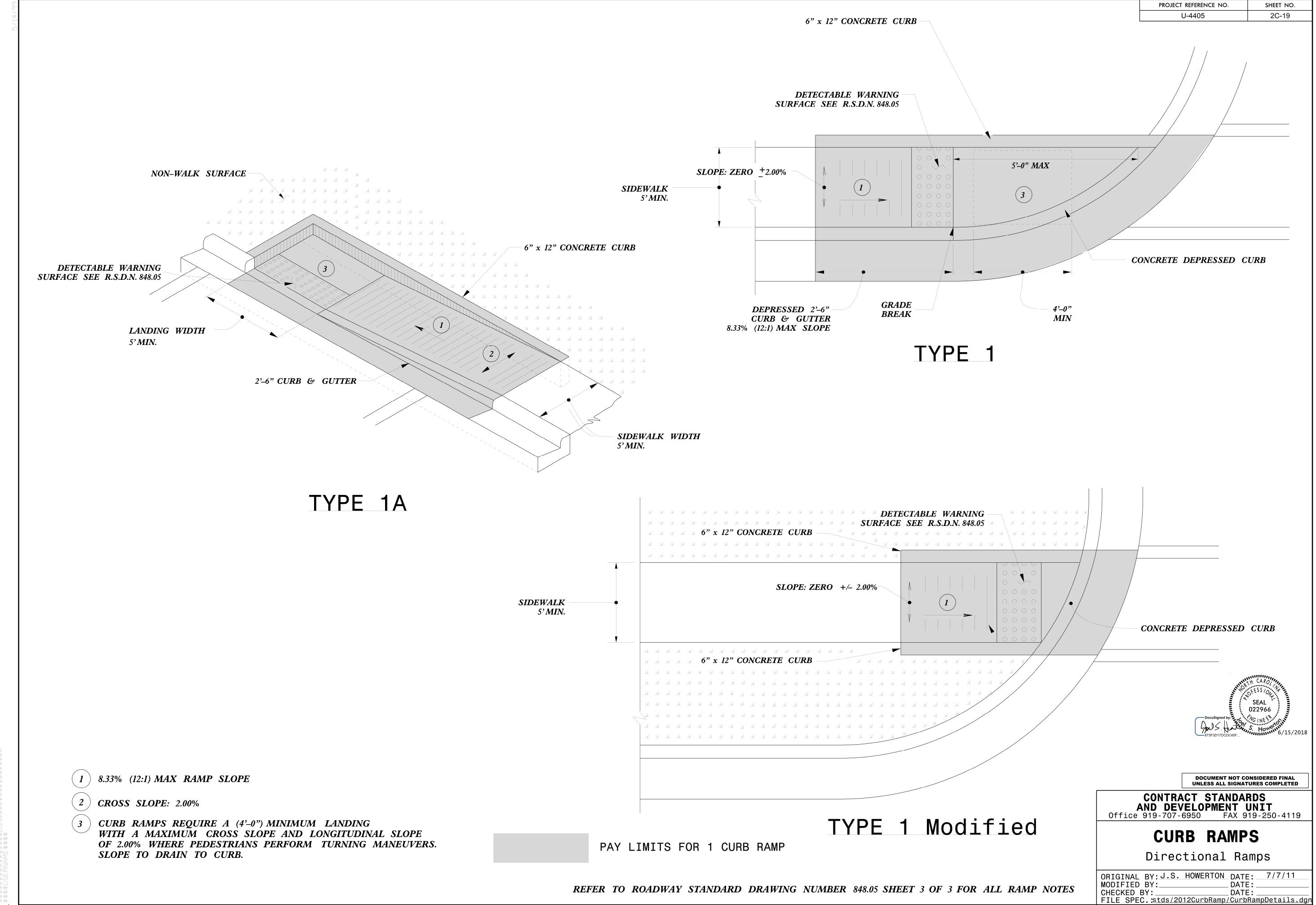




CONTRACTS STANDARDS
AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

SEE TITLE BLOCK

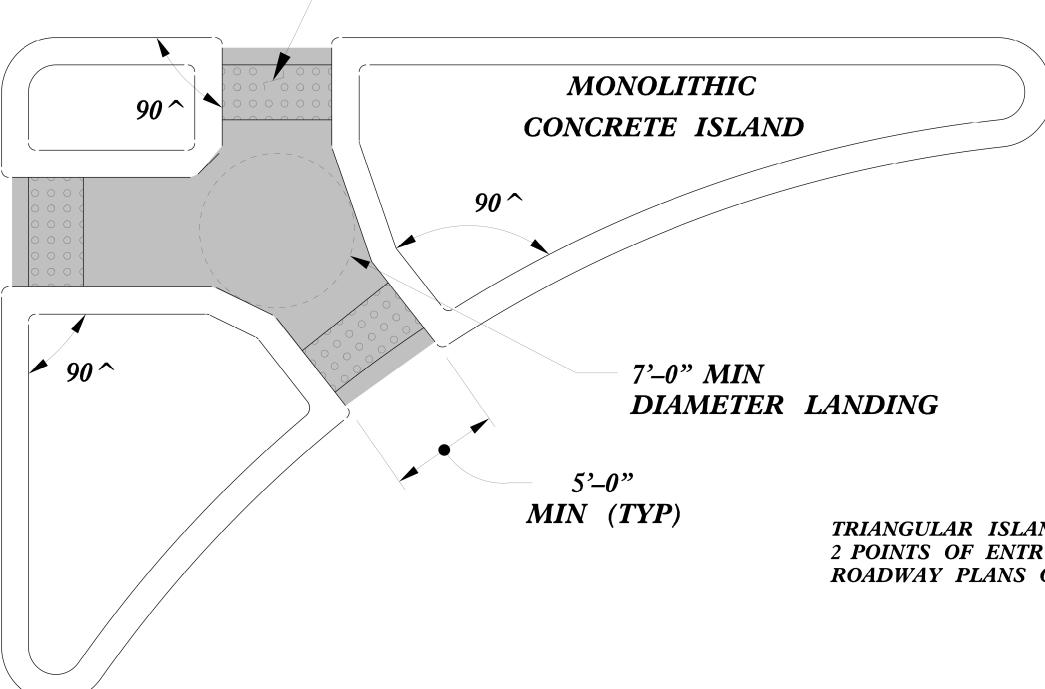
ORIGINAL BY: J.HOWERTON	DATE: <u>3-7-2018</u>
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC.:	
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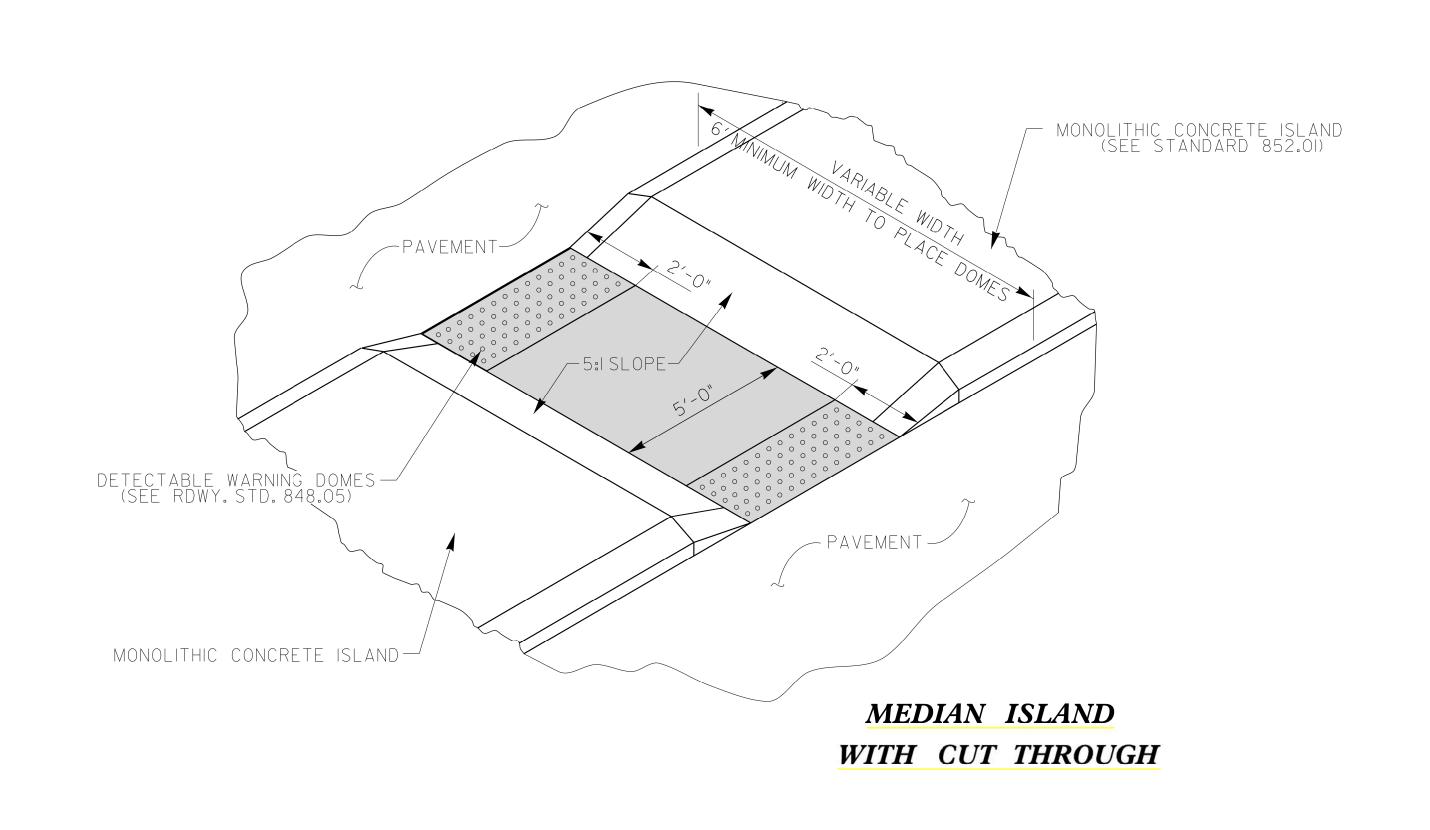
DETECTABLE WARNING
SURFACE (TYP)

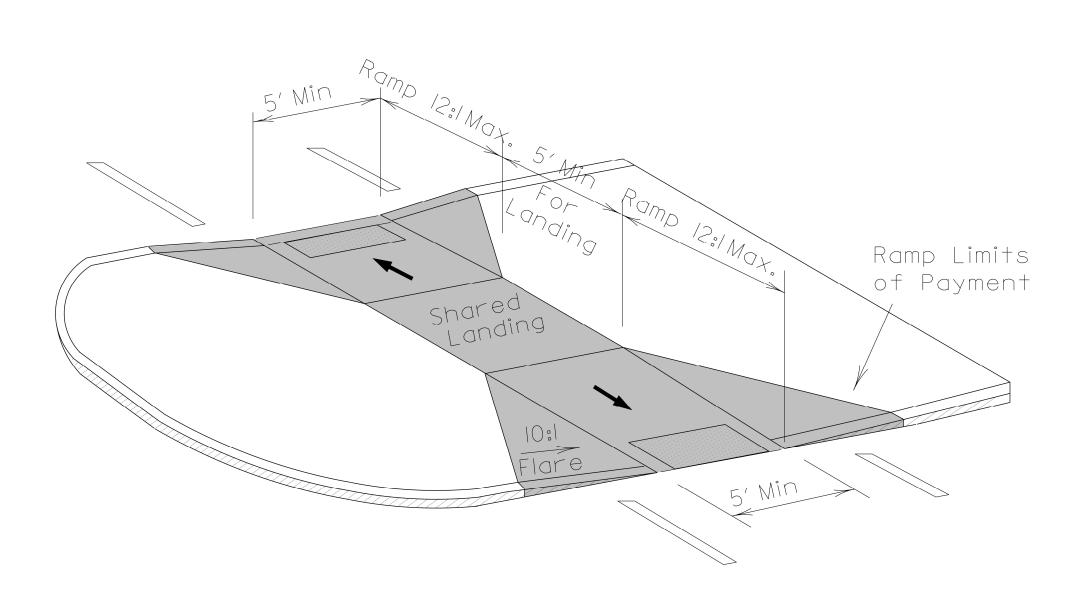
PAY LIMITS FOR 2 OR 3 CURB RAMPS (CALCULATE BASED ON NUMBER OF SETS OF TRUNCATED DOMES)



TRIANGULAR ISLANDS MAY BE CONSTRUCTED WITH ONLY 2 POINTS OF ENTRY AND EXIT AS SHOWN IN THE ROADWAY PLANS OR AS DIRECTED BY THE ENGINEER.

TRIANGULAR ISLAND
WITH CUT THROUGH





MEDIAN ISLAND
CURB RAMPS

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



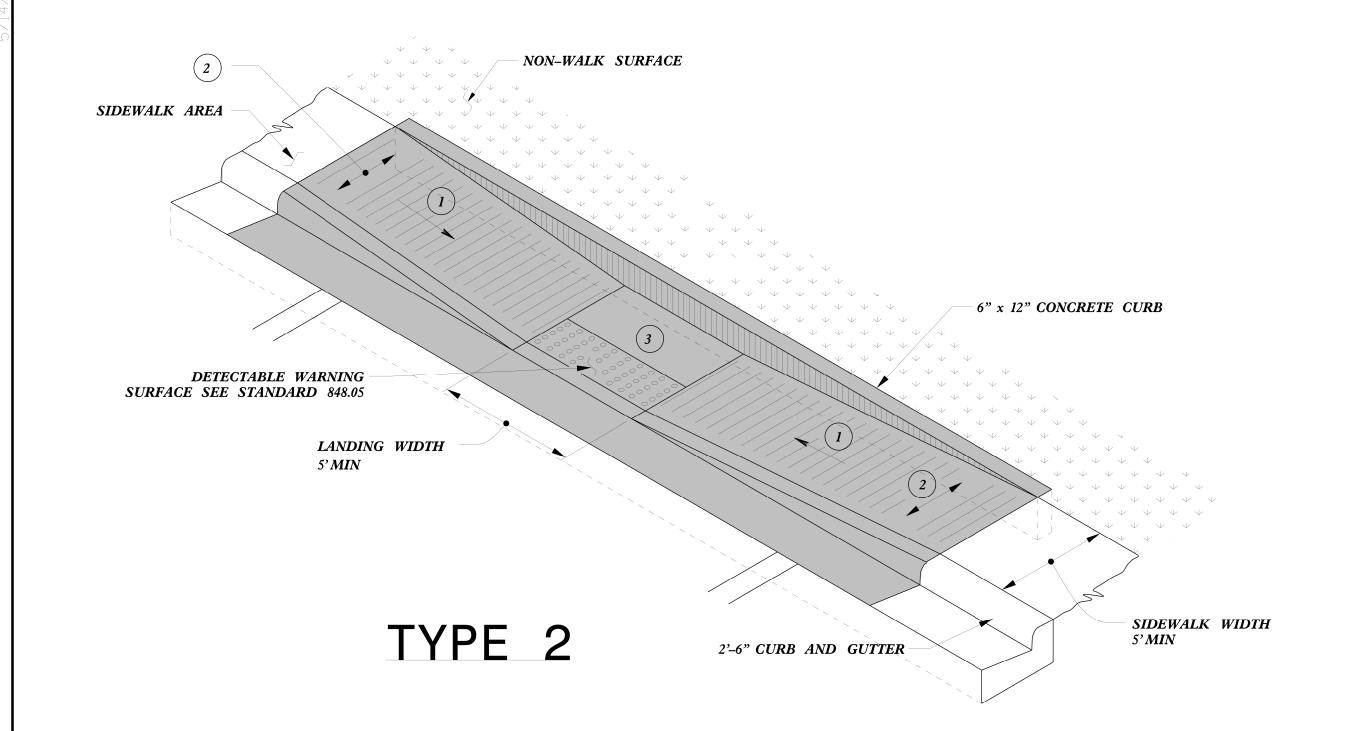
CONTRACT STANDARDS
AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

CURB RAMPS

Median or Turn Lane Islands

ORIGINAL BY: J.S. HOWERTON DATE: 7/7/11

MODIFIED BY: DATE: DATE: DATE: FILE SPEC.:stds/2012CurbRamp/CurbRampDetails.dgn

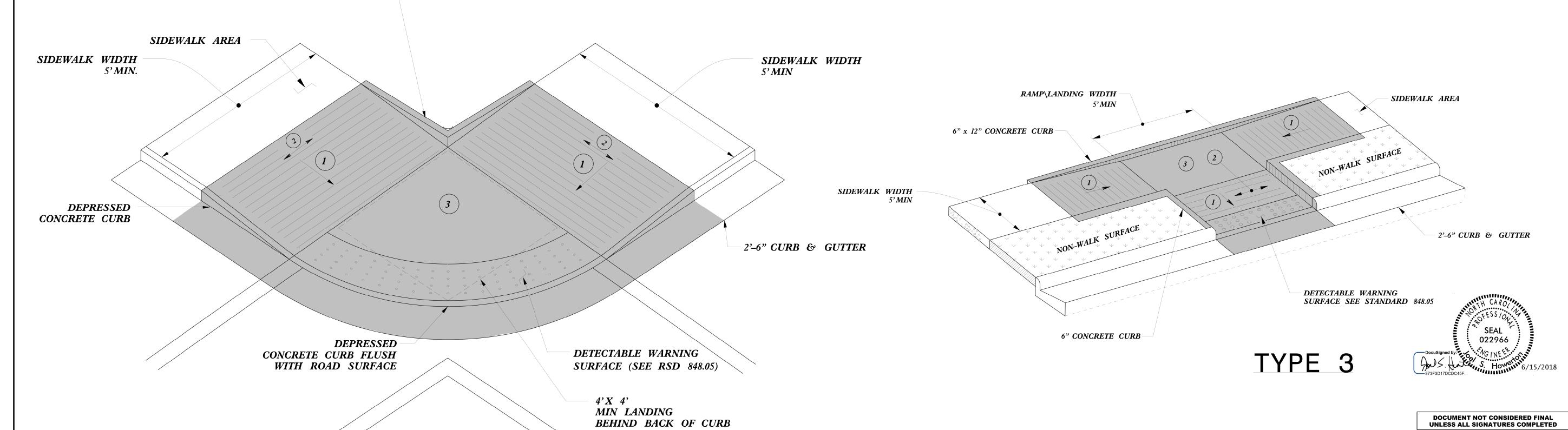


6" CONCRETE CURB

TYPE 2A

PAY LIMITS FOR 1 CURB RAMP

- (1) 8.33% (12:1) MAX RAMP SLOPE
- CROSS SLOPE: 2.00%
- CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.



CURB RAMPS

CONTRACT STANDARDS AND DEVELOPMENT UNIT Office 919-707-6950 FAX 919-250-4119

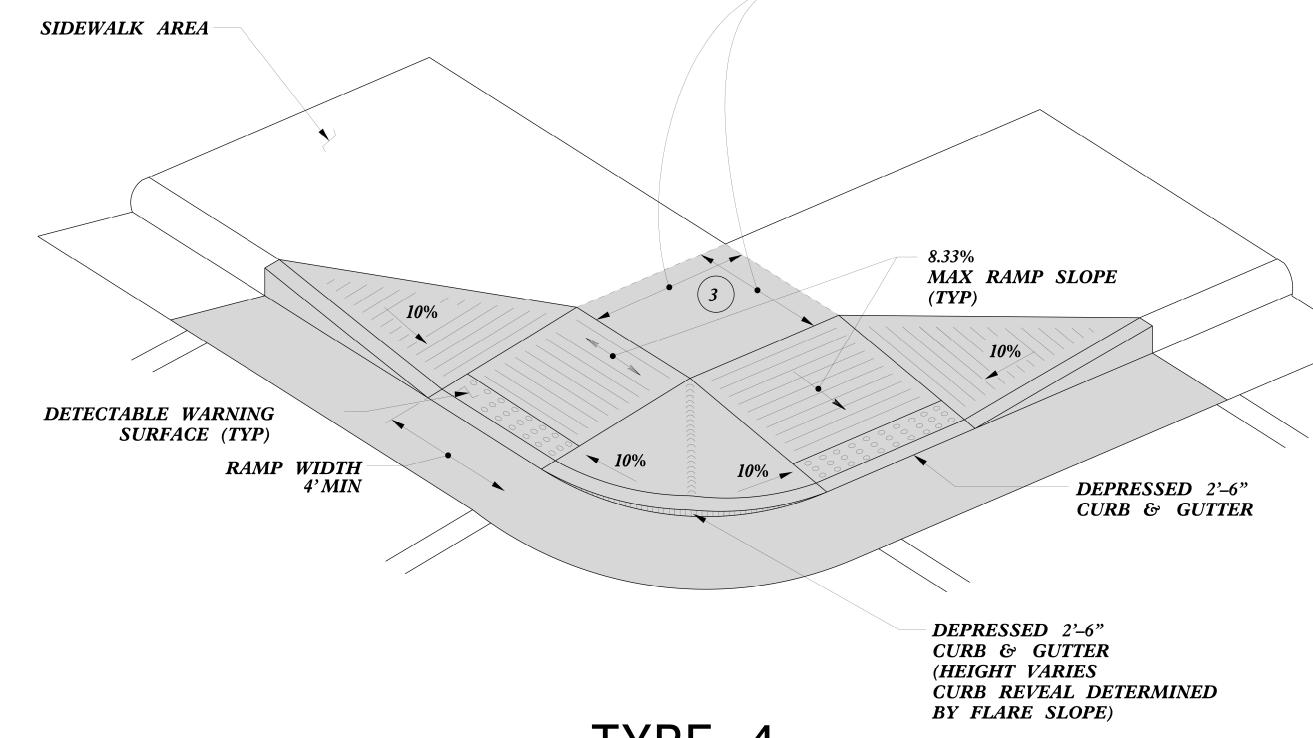
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Parallel Ramps

ORIGINAL BY: J.S. HOWERTON DATE: 7/7/11

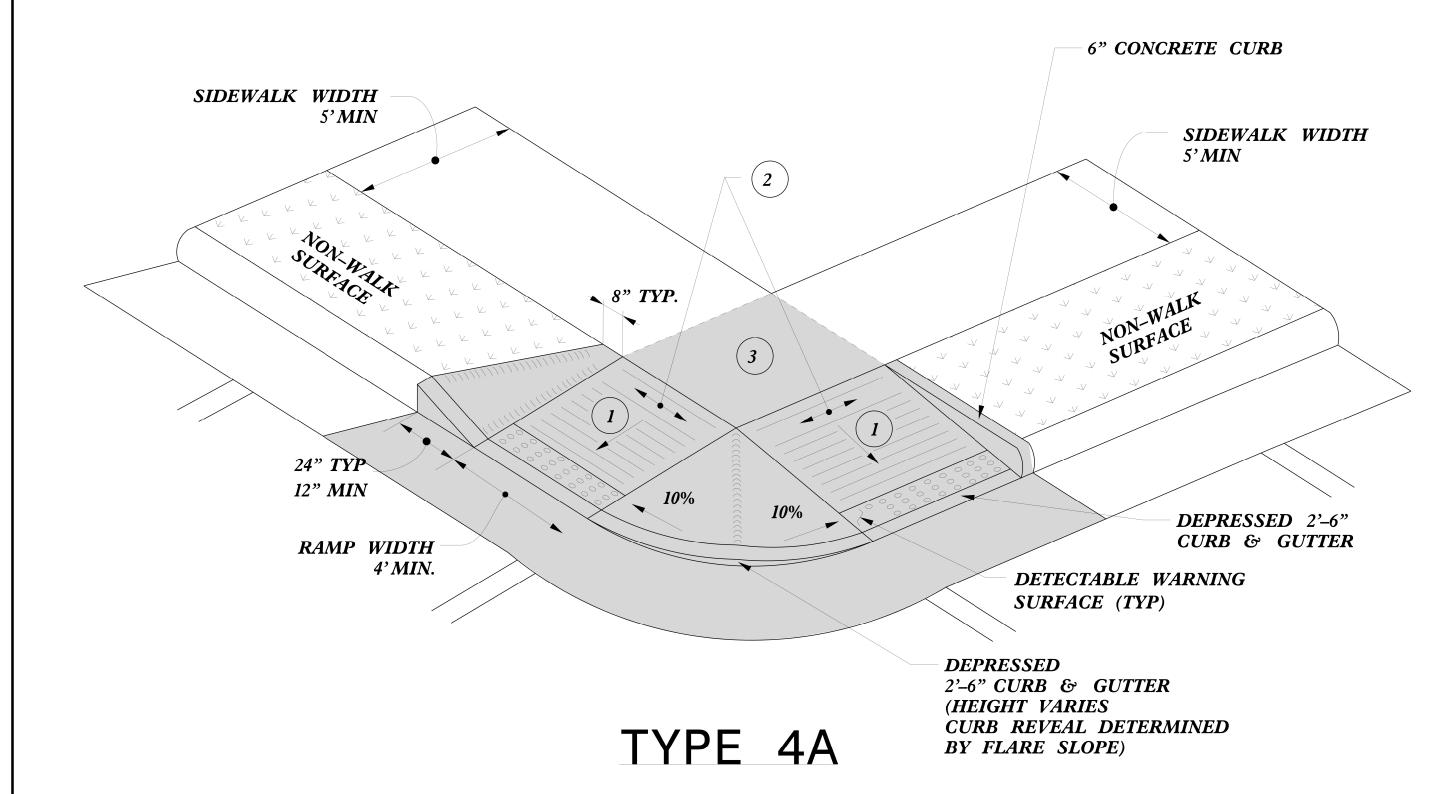
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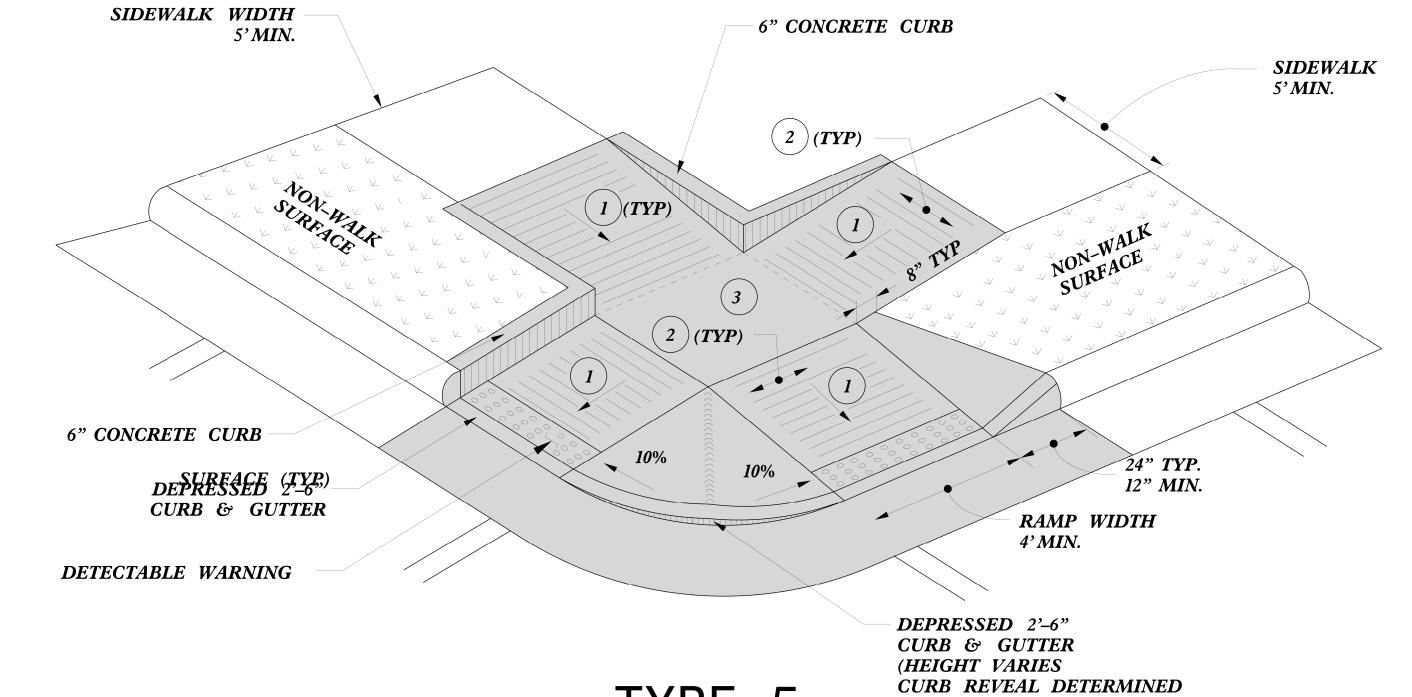
PAY LIMITS FOR 2 CURB RAMPS



4'MIN LANDING

TYPE 4





TYPE 5

BY FLARE SLOPE)

8.33% (12:1) MAX RAMP SLOPE

CROSS SLOPE: 2.00%

CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING
WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.

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CURB RAMPS

Shared Landing

ORIGINAL BY: J.S. HOWERTON DATE: 7/7/11

MODIFIED BY: DATE: DATE: DATE: FILE SPEC.:stds/2012CurbRamp/CurbRampDetails.dgn